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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/532,357	03/21/2000	Essam Sourour	8194-368 7332		
20792 7	590 12/20/2004		EXAMINER		
MYERS BIGEL SIBLEY & SAJOVEC			PIZARRO, RICARDO M		
PO BOX 37428 RALEIGH, NC 27627			ART UNIT	PAPER NUMBER	
,			2661		
			DATE MAILED: 12/20/2004		

Please find below and/or attached an Office communication concerning this application or proceeding.

					: +4		
		Applicati	on No.	Applicant(s)			
		09/532,3	57	SOUROUR, ESSAM			
	Office Action Summary	Examine	7	Art Unit			
		Ricardo I	Pizarro	2661			
Period fo	The MAILING DATE of this communic or Reply	ation appears on the	e cover sheet with the	e correspondence address -	•		
THE - Exte after - If the - If NO - Failt Any	ORTENED STATUTORY PERIOD FO MAILING DATE OF THIS COMMUNIC nsions of time may be available under the provisions of SIX (6) MONTHS from the mailing date of this commu e period for reply specified above is less than thirty (30) period for reply is specified above, the maximum stature to reply within the set or extended period for reply wreply received by the Office later than three months after the patent term adjustment. See 37 CFR 1.704(b).	CATION. f 37 CFR 1.136(a). In no evinication. days, a reply within the stautory period will apply and will, by statute, cause the app	rent, however, may a reply be tutory minimum of thirty (30) or rill expire SIX (6) MONTHS for blication to become ABANDO	timely filed days will be considered timely. om the mailing date of this communica NED (35 U.S.C. § 133).	ation.		
Status							
1)[🛛	Responsive to communication(s) filed	on 23 September :	2004.				
2a)□	This action is FINAL . 2b)⊠ This action is non-final.						
3)□							
.—	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposit	ion of Claims						
5)□ 6)⊠ 7)⊠	Claim(s) <u>1-36</u> is/are pending in the ap 4a) Of the above claim(s) is/are Claim(s) is/are allowed. Claim(s) <u>1, 17, 21, 25-26, 29, 33, 36</u> is Claim(s) <u>2-16,18-20,22,24,27,28,30-3</u> Claim(s) are subject to restrict	e withdrawn from co s/are rejected. 32,34 and 35 is/are	objected to.	•			
Applicat	ion Papers						
9)	The specification is objected to by the	Examiner.					
•) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.						
-	Applicant may not request that any object	ion to the drawing(s)	be held in abeyance. S	See 37 CFR 1.85(a).			
11)	Replacement drawing sheet(s) including the oath or declaration is objected to						
Priority (under 35 U.S.C. § 119						
a)	Acknowledgment is made of a claim for All b) Some * c) None of: 1. Certified copies of the priority of Some * Copies of the priority of Some * Copies of the priority of Some * Copies of the certified copies of the certified copies of the certified copies of the attached detailed Office action	ocuments have bee locuments have bee f the priority docum al Bureau (PCT Ru	en received. en received in Applic ents have been rece le 17.2(a)).	ation No ived in this National Stage			
Attachmer	···						
	ce of References Cited (PTO-892)	O 048)	4) Interview Summa Paper No(s)/Mail				
3) 🔲 Infor	ce of Draftsperson's Patent Drawing Review (PT mation Disclosure Statement(s) (PTO-1449 or F er No(s)/Mail Date			Patent Application (PTO-152)			

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DETAILED ACTION

Finality of the Office Action dated 8/5/04 is hereby withdrawn

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action: (e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

The changes made to 35 U.S.C. 102(e) by the American Inventors Protection Act of 1999 (AIPA) and the Intellectual Property and High Technology Technical Amendments Act of 2002 do not apply when the reference is a U.S. patent resulting directly or indirectly from an international application filed before November 29, 2000. Therefore, the prior art date of the reference is determined under 35 U.S.C. 102(e) prior to the amendment by the AIPA (pre-AIPA 35 U.S.C. 102(e)).

1. Claim 1 is rejected under 35 U.S.C. 102(e) as being anticipated by Moon.

US patent No. 6,671,266 (Moon et al) discloses a Device and method for controlling powers of orthogonal and quasi orthogonal channels in a CDMA communication system comprising a method of transmitting by generating an interference-compensated information symbols (compensation provided by controller at BS by adjusting the transmission power of the respective channels, col 6 lines 36-45) from a source information system based on knowledge of an information symbol (based on information signal, col 6 lines 41) and a first code (code from orthogonal sequence col 6 line 50) used to generate a first coded signal (signal generated from said sequence) and concurrently transmitting the first coded signal and a second coded

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signal (second signal generated from quasi orthogonal sequence, col 4 lines 27-28) representing the interference-compensated information symbol encoded according to a second code (base station compensates interference transmitting a message by having the controller to adjust the power control ratio by increasing/decreasing power of the quasi orthogonal channel, col 7 lines 33-37, col 8 lines 16-26) as in claim 1.

 Claims 21, 25-26 are rejected under 35 U.S.C. 102(e) as being anticipated by Moon.

US patent No. 6,671,266 (Moon et al) discloses a Device and method for controlling powers of orthogonal and quasi orthogonal channels in a CDMA communication system comprising a method of transmitting including at least one transmitter (base station in Fig. 1) that generates an interference-compensated information symbols (compensation provided by controller at BS by adjusting the transmission power of the respective channels, col 6 lines 36-45) from a source information symbol based on knowledge of information symbol I(based on information signal, col 6 lines 41) and a first code (orthogonal codes col 6 line 50) used to generate a first coded signal and that concurrently transmits the first coded signal and a second signal representing the interference-compensated information symbol encoded according to a second code (signals combined at adder 20 in Fig. 1, base station compensates interference transmitting a message by having the controller to adjust the power control ratio by increasing/decreasing power of the guasi orthogonal channel, col 7 lines 33-37, col 8 lines 16-26), as in claim 21; at least one base station (element 21 in fig. 2), as in claim 25;

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- 3. Claim 29 is rejected under 35 U.S.C. 102(e) as being anticipated by Moon. US patent No. 6,671,266 (Moon et al) discloses a Device and method for controlling powers of orthogonal and quasi orthogonal channels in a CDMA communication system comprising a transmitting station (base station in Fig. 1) comprising means for generating an interference-compensated information symbols (base station compensates interference transmitting a message by having the controller to adjust the power control ratio by increasing/decreasing power of the guasi orthogonal channel, col 7 lines 33-37, col 8 lines 16-26), from a source information symbol based on knowledge of an information symbol and a first code (orthogonal code, col 6 line 50) used to generate a first coded signal and means for concurrently transmitting the first coded signal and a second signal representing transmitting the first coded signal and a second signal (signals combined at adder 20 and transmitted from BS in Fig. 1) representing the interference-compensated information symbols encoded according to a second code (signals combined at adder 20 in Fig. 1, base station compensates interference transmitting a message by having the controller to adjust the power control ratio by increasing/decreasing power of the quasi orthogonal channel, col 7 lines 33-37, col 8 lines 16-26), as in claim 29.
- 4. Claim 33, 36 is rejected under 35 U.S.C. 102(e) as being anticipated by Moon.

 US patent No. 6,671,266 (Moon et al) discloses a Device and method for controlling powers of orthogonal and quasi orthogonal channels in a CDMA communication system comprising a communication base station (base station in Fig. 1) comprising an interference-compensating transmitter (compensation function performed by

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controller at BS in Fig. 1) operative to transmit on respective channels defined by respective spreading codes selected from a quasi-orthogonal spreading codes (orthogonal and quasi-orthogonal codes, col 6 lines 50-51), said set including a first group of orthogonal spreading coded (orthogonal codes from first spreading sequence of a set of spreading sequences, col 4 line 13) and a second group of orthogonal spreading codes (code from second spreading sequence, col 4 line 28), said transmitter operative to generate an interference-compensated information symbol (symbol is generated from the interference compensated correlations, col 3 lines 60-61, col 4 line 10) from a source information symbol based on knowledge of an information symbols and a code from the first group of codes used to generate a first coded signal (signal from first spreading sequence) and to concurrently transmit a second coded signal (signal from second spreading sequence) representing the interferencecompensated symbol encoded according to a code from the second group of codes (signals combined at adder 20 in Fig. 1 , base station compensates interference transmitting a message by having the controller to adjust the power control ratio by increasing/decreasing power of the quasi orthogonal channel, col 7 lines 33-37, col 8 lines 16-26), as in claim 33; wherein said transmitter concurrently transmits the first and second coded signals (signals are joined at adder 20 in Fig. 1 and transmitted concurrently), as in claim 36

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Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 5. Claim 17 is rejected under 35 U.S.C. 103(a) as being unpatentable over Moon US patent No. 6,671,266 (Moon et al) discloses a Device and method for controlling powers of orthogonal and quasi orthogonal channels in a CDMA communication system comprising in a wireless communication system in which at least one base station (base station in Fig. 1) is operative to transmit on respective channels defined by respective spreading codes selected from a set of guasi-orthogonal spreading codes (quasi-orthogonal codes, col 6 line 51), said set including groups of orthogonal codes (different sets of orthogonal codes) comprising generating an interference compensated information symbol based on knowledge of an information symbol (base station transmits a message by having the controller to the power control ratio by increasing/decreasing power of the quasi orthogonal channel, col 8 lines 16-26, said symbol based on information signal, col 6 lines 41) and a code from the first group used to generate a first coded signal and concurrently transmitting the first coded signal and a second coded signal representing the interference-compensated information symbol (signals are combined at adder 20 and concurrently transmitted from BS in Fig. 1), as in claim 17.

Moon did not specifically disclose a first and a second group of orthogonal codes

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However it is well know to a person of ordinary skill in the art in a CDMA system for

purposes of channel separation, different sets of orthogonal codes are assigned to the

respective channels.

Therefore, it would have been obvious to a person of ordinary skill in the art at the time

of the invention that the Mon system includes separate groups of orthogonal codes with

the motivation of obtaining a method to control the transmission power in a CDMA

system using orthogonal and quasi orthogonal codes.

Allowable Subject Matter

6. Claims 2-16, 18-20, 22-24, 27-28, 30-32, 34-35 are objected to as being

dependent upon a rejected base claim, but would be allowable if rewritten in

independent form including all of the limitations of the base claim and any

intervening claim. Please also notice objection to claims under 37 CFR 1.75

Conclusion

7. Any response to this action should be mailed to:

Commissioner of Patents and Trademarks

Washington, D.C. 20231

or faxed to:

(703) 872-9306

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(for formal communications intended for entry, for informal or draft communications, please label "PROPOSED" or "DRAFT")

Hand-delivered responses should be brought to 220 South 20th Street, Crystal Plaza Two, Lobby, Room 1B03, Arlington, Va 22202 (Customer Window).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to **Ricardo Pizarro** whose telephone number is (571) 272-3077. The examiner can normally be reached on Monday-Friday from 9:00 AM to 5:30 PM. The fax number for this Group is (703) 872-9306.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, **Kenneth Vanderpuye** can be reached on (571) 272-3078.

December 10, 2004

Ricardo M. Pizarro

KENNETH VANDERPUYE PRIMARY EXAMINER